

3/2/04

<u>LHA/LHD & FFG</u> COSAL Effectiveness Study



<u>LHA/LHD</u> Issue and Approach

3/2/04

- ► Issue ...LHA Class Gross Effectiveness averaging 42%
- ➤ Where are the misses ...NSLC analysis (other 58%)
 - 17% NIS
 - 18% allowance candidates not allowed
 - 23% items that were not allowance candidates
- Approach ...Coordinated with customer (TYCOMS) and service providers (NAVSEA / NSLC)
 - Reviewed NSLC analysis
 - SUP reviewed BRFs causing 18% not allowed
 - Selected several weapon systems for in-depth logistics review



LHA/LHD NIS Review

3/2/04

CATEGORY 1 - 17% NIS

Reviewed Data for 4 Selected Systems

- Majority of NISs DLA managed items
- Not a wholesale availability problem
- Based on Maintenance usage, but OSI, GUCL, SIM major NIS driver

TYCOMs working to raise Net Effectiveness into 80 - 85% range

- Assist teams stepping up efforts to resolve
- We've asked TYCOMs what can we do to help....remove barriers



LHA/LHD COSAL Computation Review

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CATEGORY 2 - 18% Candidates Not Allowed

- Reviewed BRFs... no systemic problems
- Considered Ship Class Replacement Factor (SCRF)
 - Tailored usage rate based on LHA/LHD demand
 - Recomputed COSAL (LHAs) ...10% increase in gross = \$1.8M / ship (\$9M Total)
- Explored COSAL Options
 - Recommended SCRF based Economic adds (Below \$1,000)

Briefed to CAPT Heinrich

- Endorsed approach...prioritizing LHA implementations
- What we're shooting for ... COSAL increase of 8.9% and reduction of Allowed NIS to 10% (from 17%; Net increase to 83%) will raise LHA GE to about 58%

		LHA2			LHD4	
	<\$1K	>\$1K	TOTAL	<\$1K	>1000	TOTAL
Range 2,102	2,229		179	2,408	1,931	171
Cost	\$.25M	\$1.4M	\$ 1.6M	\$.24M	\$2.1M \$2	.3M
Effect +9.5	+ 8.9		+0.8	+9.7	+ 8.6	+0.9



<u>LHA/LHD</u> Non-Candidates ILS Review

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CATEGORY 3 - 23% Non-Candidates

- Logistic and technical elements preclude consideration as candidates
- PEO Ships/ CAPT Heinrich Selected 4 weapon systems for in-depth logistics review
 - FUELING SERV, XFR AND BLENDING SYSTEM, AVI IP-5
 - LOCKERS, DAMAGE CONTROL
 - RADAR WEAPON ASSEMBLY (CIWS)
 - AN/SLQ-32A(V)3, COUNTERMEASURE SET
- JP-5 and DC Lockers
 - · Major drivers of poor performance not logistic or technical issues
 - High NIS rate for allowed items (JP-5: 33%) (DC Lockers: 23%)
 - · Majority of requisitions consumables (SIM / GUCL items)...One or two ships
 - · Wholesale levels are adequate

Top drivers of LHA 3M off-ship requisitions



<u>LHA/LHD</u> Non-Candidates ILS Review

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CATEGORY 3 - 23% Non-Candidates (Cont)

- > SLQ-32
 - Poor GE (31.4%) random failure and reliability problems with test equipment
 - Plus a high NIS rate (18%) for allowed items
 - Wholesale System Availability 94% both Navy and DLA
- CIWS Radar Assembly
 - GE for the CIWS system is at 61% with an NIS rate of 13%
 - Not Allowed NSNs (15.8%) not selected by RBS optimization process due to cost, criticality and/or expected failure
- Next: FY 05 RBS Backfit
 - FY05 SLQ-32 RBS backfit to raise Ao on LHAs/LHDs (from 75% to 90%) and improve GE
 - CIWS Block 1B Upgrade underway to correct the Ao and reliability deficiencies (LHAs FY 08)



LHA/LHD COSAL Effectiveness

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Summary

- 17% Allowed NIS
 - TYCOMS taking the lead...OFS will assist
 - Wholesale availability not the stumbling block
- > 18% allowance candidates not allowed
 - SCRF based economic adds expected to improve LHA GE 8.9% @ \$240K
 - Allowed NIS reduction to 10% (from 17%) will increase LHA GE to 58%
- 23% not allowance candidates
 - No technical/logistic issues for JP-5 or DC Lockers
 - FY05 RBS Backfit will improve SLQ-32 performance
 - CIWS Block 1B upgrade will resolve Ao and reliability deficiencies

Next

- FY04 TARAWA & BELLEAU WOOD
 - Re-prioritize funds?



FFG COSAL Analysis

NAVAL SUPPLY SYSTEMS COMMAND

3/2/04

<u>Issue</u>

Low GE

 Caused by LOMIX APLs?

To Date

- LOMIX APLs
- ARFs from 1980's...BRFs used all population
- Considered FFG Ship Class Replacement Factor (SCRF)

Proposal

> Utilize SCRF with each new CILS/TAT COSAL

<u>FFG60</u>	<u>Baseline</u>	.5F+ BRF	.5F+ SCRI		. <u>5F+ SCRF</u> s <u>Adds/Incrs</u>
Range +1,549	7,860		7,473	7,388	+1,451
Cost Effect	\$7.0M 54%	\$6.4M + 0.9	\$6.6M + 3.4	+\$1.2M + 7.0	\$ 1.4M + 9.8
FFG61 Range +1,548	7,627		6,495	6,604	+1,390
Cost Effect + 7.9	\$7.4M 47.9%	\$4.6M	\$5.0M - 2.2	+\$0.8M + 0.6	\$ 1.1M + 6.2